

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PARK, Jang-Won

Jewoo Bldg. 5th Floor, 200, Nonhyun-Dong, Gangnam-Gu, Seoul, 135-010 Republic of Korea

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) 11 JULY 2005 (11.07.2005)

Applicant's or agent's file reference
PALDO05498

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/KR2005/000477

International filing date (day/month/year)

22 FEBRUARY 2005 (22.02.2005)

Priority date (day/month/year)

23 FEBRUARY 2004 (23.02.2004)

International Patent Classification (IPC) or both national classification and IPC

IPC7 A62B 1/00

Applicant

RHEE, Dae-Ok

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, DONG KUK

Telephone No. 82-42-481-8144



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2005/000477

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-19	YES
	Claims	None	NO
Inventive step (IS)	Claims	1-19	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1-19	YES
	Claims	None	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 4,452,339

D2: US 4,520,900

D3: KR 1020030029188

I. Novelty

The present application relates to an emergency release apparatus comprises: an air tube having and accommodation space for an evacuee and for protecting the evacuee from an external impact; a rope connected to the air tube, having one end fixed to an evacuation place, and having a length long enough to reach the ground; and a controller mounted in the air tube and connected to the rope, for descending the air tube in which the evacuee is accommodated to the ground at a safe speed.

D1 relates to a full length and protected body harness attached by cable wire to an apparatus with a controlled pay out for use in escaping mortal danger in high-rise buildings. D2 relates to an escape support for personnel in the form of harnesses or a protective cage is suspended from a trolley, riding on a rail extending externally from the building. D3 relates to A lifesaving air vest and preparation thereof are provided which the wearer can float in the air by charging a gas therein, thereby a casualty can wait a rescue without the body heat reduction or the fatigue accumulation for a long time.

D1 and D2 disclose neither the air tube for protecting from an external impact nor the controller mounted in the air tube, which are disclosed in claim 1 of the present application. Therefore, claim 1 meets the requirement of PCT Article 33(2). Since claims 2 through 19 are dependent on claim 1, they also meet the requirement of PCT Article 33(2).

II. Inventive Step

Claim 1 through 19 features an emergency release apparatus comprises: an air tube with a transparent window and a plurality of buffering protrusions; a gas tank and a air bag installed at an inner floor of the air tube; an air resisting portion mounted at an upper side of the air tube; a rope connected to the air tube, having one end fixed to an evacuation place. Consequently, the emergency release apparatus enables an evacuee to safely descend to the ground with the eyes covered comfortably and external impact minimized.

None of D1-D5 disclose the technical features defined in claim 1 through 19. In addition, said technical features would not be obvious to a person skilled in the art. Therefore, claim 1 through 19 meet the requirement of PCT Article 33(3).

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 1 through 19 claim a controller for the emergency release apparatus. However there just is a hopeful function of it, and no detailed constitution within the controller by which the speed is controlled is present in the detailed description. Therefore, it is not considered that claim 1 through 19 are described in a clear and concise way and the detailed description is written as used without a difficulty by a person skilled in the art, contrary to PCT Article 5 and 6.